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\*\*\* TX REPORT \*\*\*  
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TRANSMISSION OK

TX/RX NO	1236
CONNECTION TEL	93742279
SUB-ADDRESS	
CONNECTION ID	
ST. TIME	02/03 10:27
USAGE T	17'36
PGS.	24
RESULT	OK

**ALASKAN / COPPER**  
*Works***FAX MESSAGE/  
TRANSMITTAL**

P.O. Box 3546 Seattle, Washington 98124 (206) 623-5800

TO: KTA ASSOCIATES INC

DATE: 2-3-10

FAX: 206-374-2279

RE: 2009 manifests  
for  
3200 & 3600

ATTN: John Souza

☐ THIS MESSAGE IS COMPLETE ON THIS MESSAGE SHEET  
☒ THIS TRANSMITS 24 SHEETS INCLUDING THIS TRANSMITTAL SHEET.

Sent By/ Please Reply To:  
GERALD A. THOMPSON

PHONE (206) 571-6033

**MESSAGE**

IF you have any questions  
PLEASE call me

Jerry



## ALASKAN COPPER

### BURNING TABLE CLEANING

Approval Date: 01/11/2010

Revision Date: 01/11/2010

Number: AKCBT-001

Process: Burn Table Clean

#### SAFETY EQUIPMENT

Safety Tee

PPE

#### SPECIAL TOOLS REQUIRED

Cusco vacuum truck

6" Flex hose

20 Yard dewatering roll off box

2" double diaphragm pump

Air Compressor

Pressure Washer

#### MATERIALS REQUIRED

20'x100' roll of 6 mil plastic sheeting

Flat shovels

Spade shovels

Squeegee

Duct tape

Absorbent pads

Dewatering box filter liner

10 gallons of 60% phosphoric acid.

#### REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

Gloves

Shoes

Body

Face

Respiration

Other

Nitrile inner gloves with PVC outer gloves

Rubber steel toe boots/ leather steel toe boots

Tyvek coverall / Saranex Coverall

Niosh approved safety glasses

Full face APR with P100 cartridges or equivalent

Ear Plugs

## HEALTH HAZARDS

Due to the Cusco's high vacuum capabilities extreme caution is to be used when working around the end of the suction hose. Hands and body part should be kept clear of the end of the suction hose when in use.

6" flex hose filled with product is very heavy and may present lifting hazards

The chemical nature of the mineralization solution is extremely acidic, proper PPE, Level C, and care needs to be adhered to when handling this chemical.

The surface in the burn tables is water on steel and may present slip hazards.

## TASK STEPS....

### A. Job Set Up

1. Meet with on site personnel to ensure conditions are as expected, contents of the burn table are as discussed, and any system lines are locked and tagged out.
2. Techs to unload equipment and supplies.
3. Forman to fill out Hazardous Work Permit and conduct the tailgate safety meeting all attendees must sign the permit.
4. Techs to don assigned PPE. and complete setup of Vacuum System to Cusco

### B. Burn Table Clean Out

1. Clean Harbors crew to verify system is fully de-energized, then lock out, tag out, try out.
2. Technicians will add approximately 1.2 gallons of 60% phosphoric acid per ton of material on the burn table.
3. Using the Cusco begin vacuuming the metal fines and residual liquids out of the burn table, ensuring the hose is positioned in a way that allows it to breathe.
4. Technicians will move the metal slag towards the hose with shovels and squeegees.
5. The vacuum process will fully agitate the acid with the burn table materials.
6. Technicians will test the PH of the collected materials when the PH is neutral, a PH of 6 to 8, the slag has been mineralized\*.
7. Continue feeding the hose with material out of the burn table until all of the material has been pumped up, or until an Alaskan Copper representative feels the table is clean enough.

Potential Hazards	Recommended Action or Procedure
Lifting Hazard	Be sure to use proper lifting techniques when moving full hoses or heave equipment seek help when possible.
Loud Noises	The Cusco generates a lot of noise when in use wear appropriate ear protection when working around the unit
Slip Hazards	Use caution working around wet floors and surfaces clean up as much water as possible to minimize slip hazards.
High Vacuum	Use a safety T on the 6" flex hose Keep hands, Feet and other body parts away from the end of the hose
Chemical Burn	The phosphoric acid used in the Mineralization of the metal fines is very acidic and should be handled with caution proper PPE, level C, is to be worn at all times when handling.

\* Mineralization occurs through a chemical change called "Isomorphic Substitution". This isomorphic property of the resulting mineral is the ability for similar ions or molecules having similar size and change to interchange within the crystalline matrix without causing a change in the crystal structure or physical properties of the mineral. The isomorphic property of the mineral is irreversible. Any number of highly toxic ions can be placed permanently within the mineral structure making them nearly insoluble and significantly more resistant to leaching than typical stabilization techniques

### C. Waste Transfer

1. Line the dewatering box with a mesh filter liner
2. Put a ball valve fitting on the dewatering box
3. place a cap on the filling and ensure the valve is in the closed position
4. Place plastic sheeting on the ground in the area the transfer is to take place, pull the plastic up over the side of the dewatering box allow the end to drape over into the box.
5. Back the Cusco up to the side of the roll off where the plastic has been laid out open the back of the Cusco and begin slowly tipping the load into the roll off.
6. Continue slowly tilting the tanker back into the roll off until all the material has been dumped out in the roll off.
7. Then wash out Cusco into dewatering roll off until all slag is removed.
8. Remove the cap off of the ball valve fitting attach 2 inch hose and pump to the dewatering box and begin pumping off the water into a 275 gallon poly totes.
9. Continue until all liquid has been removed from Dewatering Roll off box and totes are pumped back to Alaskan copper's treatment system.
10. After the box has sat for a minimum of 12 hours, pull an 8 ounce sample and submit to a state accredited lab for RCRA 8 TCLP.

**SIMPLE TITLE**

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Lifting Hazard	Be sure to use proper lifting techniques when moving full hoses or heave equipment seek help when possible.
Loud Noises	The Cusco generates a lot of noise when in use wear appropriate ear protection when working around the unit
Slip Hazards	Use caution working around wet floors and surfaces clean up as much water as possible to minimize slip hazards.

#### D. Demobilization

1. Load all equipment back into trucks and take back to Facility.
2. Load all hoses and emergency equipment and fittings for Cusco back on to it.
3. Have Paperwork signed off by Foreman running job and give copy to customer.
4. Drive back to shop and unload all equipment.
5. Complete all necessary paperwork and turn in to FSR.

Potential Hazards	Recommended Action or Procedure
Lifting Hazard	Be sure to use proper lifting techniques when moving full hoses or heave equipment seek help when possible.
Slip Hazards	Use caution working around wet floors and surfaces clean up as much water as possible to minimize slip hazards.

#### E. Sending slag to Recycler

1. Schedule load into recycler.
2. After the slag has had time to fully dewater, approximately 2 to 5 days. Spot a low side roll off for transferring the slag out of the dewatering box into for the recycler.
3. Using a roll off truck, then pick up the dewatering box and dump into empty roll off. Remove the filter liner and dispose of properly.
4. Load up the roll off and take to recycler for unloading complete paperwork and get customer signature.
5. After complete return empty roll offs to the yard complete paperwork.

Potential Hazards	Recommended Action or Procedure
Lifting Hazard	Be sure to use proper lifting techniques when moving full hoses or heavy equipment seek help when possible.
Loud Noises	The Cusco generates a lot of noise when in use wear appropriate ear protection when working around the unit.
Slip Hazards	Use caution working around wet floors and surfaces clean up as much water as possible to minimize slip hazards.

<<REMOVE THIS TEXT AFTER READING IT>>

#### APPROVAL DATE

*Must have approval dates and when indicating Revisions start with Rev. zero (0).*

#### NUMBERING IDENTIFICATION

Internal Documentation System

SIMPLE TITLE

Rev. #001 01/11/2010

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